



AS-i SlimLine Compact module SC22.5, IP20, analog, 4AI-RTD Screw terminals 4 x analog input Thermal resistance/resistor Overall width 22.5 mm

<b>product designation</b>	Slimline Compact I/O module for use in the control cabinet
<b>design of the product</b>	AS-i SC22.5, 4AI voltage/current
<b>product type designation</b>	3RK1
<b>design of the slave type</b>	standard slave
<b>AS-Interface slave profile</b>	S-7.3.E
<b>ID1 code</b>	F; Factory setting, changeable
<b>operating voltage according to AS-Interface specification</b>	18 ... 31.6 V
<b>product function suitable for AS-i Power24V</b>	Yes
<b>consumed current from profile conductors of the AS-Interface</b>	
• at 30 V maximum	100 mA
• at 24 V with AS-i Power24V maximum	100 mA
<b>type of address setting of AS-i slaves</b>	via front addressing socket
<b>Substance Prohibitance (Date)</b>	05/01/2012
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 Diboron trioxide - 1303-86-2
<b>Weight</b>	0.225 kg
<b>reference code</b>	
• according to EN 61346-2	K
• according to DIN 40719 extended according to IEC 204-2 according to IEC 750	A
<b>shock resistance</b>	15g / 11 ms (modules) or 10g / 11 ms (modules with device connector)
<b>other information</b>	An auxiliary external feed (AUX POWER) of between 20 and 30 V DC is necessary for supplying the output circuits. The auxiliary feed must comply with IEC 60990 (PELV), protection class III.
<b>Digital Inputs</b>	
<b>number of digital inputs</b>	0
<b>number of digital inputs safety-related</b>	0
<b>Sensor supply</b>	
<b>type of voltage supply for sensor supply</b>	using AS-Interface
<b>Digital Outputs</b>	
<b>number of digital outputs</b>	0
<b>Analog inputs</b>	
<b>number of analog inputs</b>	4
<b>signal range at the analog input</b>	Pt 100 standard and climate range / Ni 100 / resistance measurement 0 ... 600 Ohm
<b>design of the sensor at the analog input is supported resistor temperature sensor</b>	Yes
<b>product function input variable parameterizable</b>	Yes
<b>A/D resolution for analog inputs/outputs</b>	16 bit
<b>product function smoothing parameterizable</b>	Yes

set values of the interference frequency for interference voltage suppression	50 / 60 Hz
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### Analog outputs

number of analog outputs	0
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### Errors/ accuracies

relative symmetrical operational limit relating to input range/output range	1 %; full scale
relative symmetrical basic error limit relating to input range/output range at 25 °C	0.7 %
symmetrical temperature error per K relating to input range/output range	0.01 %/K
relative symmetrical linearity error relating to input range/output range	0.05 %
relative symmetrical repeat accuracy relating to input range/output range in settled state 25 °C	0.1 %

### Device connector

capacity of the interface to the device connector	
<ul style="list-style-type: none"> <li>for AS-Interface</li> <li>for external auxiliary voltage</li> </ul>	2 A 4 A

### Installation/ mounting/ dimensions

fastening method	screw and snap-on mounting
height	100 mm
width	22.5 mm
depth	120 mm

### Ambient conditions

ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>	-25 ... +70 °C -40 ... +85 °C

### Connections/ Terminals

type of electrical connection of the inputs and outputs	Screw terminals
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> </ul>	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> ) 1x (0.25 ... 2.5 mm <sup>2</sup> ), 2x (0.25 ... 1.0 mm <sup>2</sup> ) Not permitted 1x (24 ... 14), 2x (24 ... 16) Not permitted

### Approvals Certificates

General Product Approval	EMV	Test Certificates
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[Type Test Certificates/Test Report](#)

### Maritime application

		<a href="#">Confirmation</a>
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### Environment

<a href="#">Environmental Confirmations</a>	
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### Further information

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1207-3CE00-2AA2>

Cax online generator

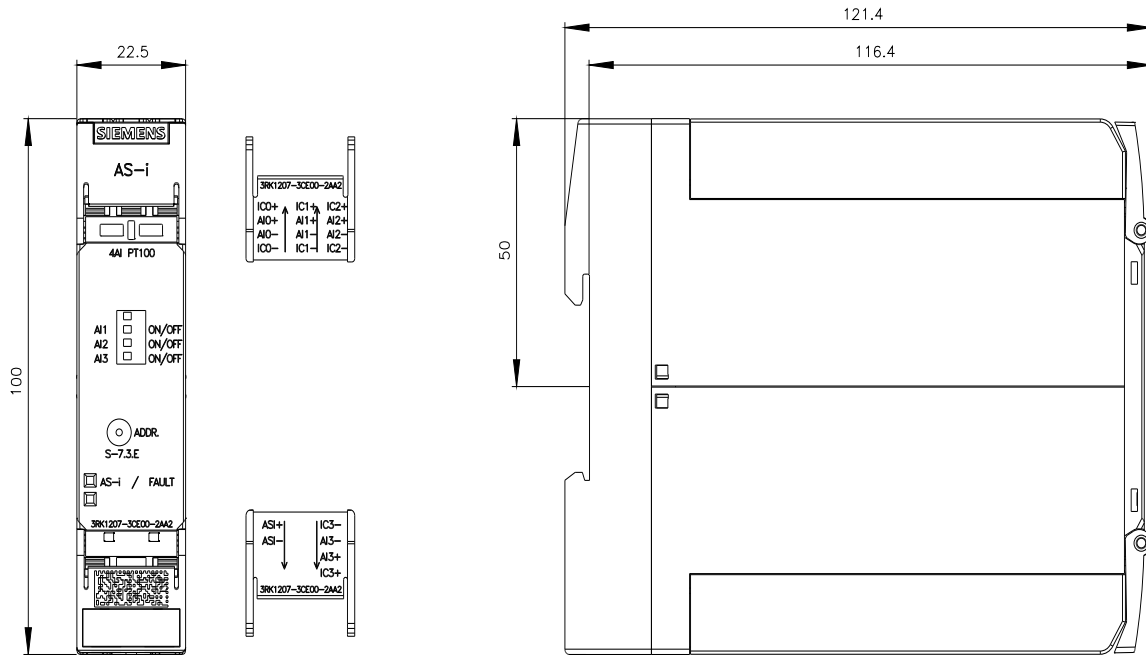
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1207-3CE00-2AA2>

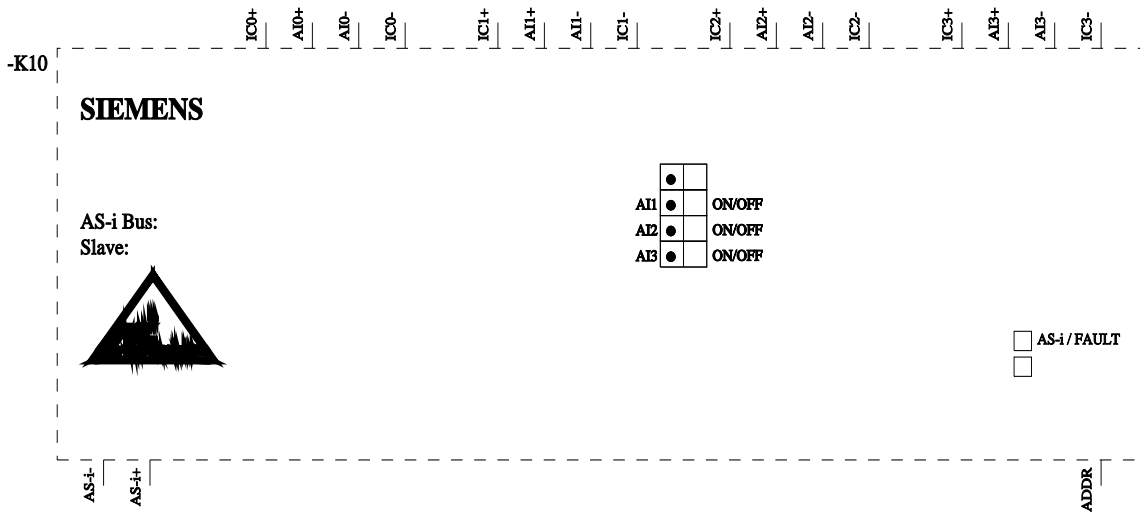
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1207-3CE00-2AA2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1207-3CE00-2AA2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1207-3CE00-2AA2&lang=en)





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4/2/2025 